BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 1000000.00

Name of Work: Drilling of Borewells and Providing Pump and Motor and Providing Children Playing Equipments at Thindlu Govt School in Ward No. 09, Vidyaranyapura Sub Division.

(12)

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.48, I. 9.4) PRED.SR 2012-13**	Each BW							
			1				**1**	1882.00	**1882.00**
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **P. 46 / I. 9.1 PRED SR 2012-13**	Rmtr							
	0 to 50 m		1	50.00			**50.00**	315.18	**15759.00**
	50 to 100 m		1	50.00			**50.00**	412.00	**20600.00**
	100 to 150 m		1	50.00			**50.00**	458.35	**22918.00**
	150 to 200 m		1	50.00			**50.00**	484.10	**24205.00**
	200 to 250 m		1	50.00			**50.00**	560.32	**28016.00**
	250 to 300 m		1	50.00			**50.00**	600.49	**30025.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel ee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty **P. iii, I No. 84 PRED SR 2012-13**	Rmtr							
			1	50.00			**50.00**	1325.00	**66250.00**
4	Providing 250mm dia PVC Pipe 6kg/cm **BWSSB SR for 2014-15 (P-53 Items 1(11))**	Rmtr							
			1	18.00			**18.00**	1100.00	**19800.00**
5	Providing and fixing 160mm Borewell Cap **P. iii, I No. 85**	Each							
			1				**1**	100.00	**100.00**
6	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps **PWD SR 2015-16 P. XXXX Item No. 24 including of all taxes**	No							
	12.5 HP 25 Stage		1				**1**	60400.00	**60400.00**
7	Providing GI Pipes confirming to IS Specification as approved make with fitting such as coller bends elvow tees plugs with cut threads using white lead and treads for joints wherever necessary as per directions including all lead and lift etc complete (excluding cost of fittings,)50mm dia GI pipe class **B Pipe (PWD SR for 2015-16 P-XVII code No. 509 Sl No. 0154)**	M							
			1	260.00			**260.00**	321.00	**83460.00**
8	Heavy Duty Collar 50 mm dia (Market rate)	Nos	44				**44**	130.00	**5720.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
9	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of **GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 4 Sqm mm KPWD Electrical SR 2014-15**	Mtr							
			1x2	270.00			**540.00**	126.70	**68418.00**
10	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) **P 558 & BWSSB SR for 2014-15 items No-3)**	Per Length							
	(260/6)=43.33		1	44.00			**44**	88.00	**3872.00**
11	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., **P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15**	Each							
			1				**1**	302.00	**302.00**
12	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**	Mtr							
			1	30.00			**30.00**	140.40	**4212.00**
13	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**	Mtr							
			1	30.00			**30.00**	10.80	**324.00**
14	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) **P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**	Mtr							
	For Cutting Road Surface		1	25.00			**25.00**	85.00	**2125.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV **P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15**	Mtr							
	40mm dia GI pipe		1	4.00			**4.00**	345.00	**1380.00**
16	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**	No.							
	16Sqmm		1				**1.00**	280.00	**280.00**
17	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, **(P No. 55, I No. 7.1) KPWD Electrical SR 2014-15**	No							
			1				**1**	2727.00	**2727.00**
18	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.**P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15**	No.							
	32 Amps		6				**6**	180.00	**1080.00**
19	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No. 90 Item No. 13.55 / PWD SR 2015-16**	Nos							
			1				**1**	1579.40	**1579.00**
	Basic Rate	1490.00							
	Area Weightage @ 6%	89.40							
	Total	**1579.40**							
20	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. **P. No. 92 / I. No. 13.81.3 PWD SR 2014-15**	No							
	50mm dia		1				**1**	227.90	**228.00**
	Basic Rate	215.00							
	Area Weightage @ 6%	12.90							
	Total	**227.90**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
21	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete **P. XXXVII PWD SR 2015-16**	No							
			1	4.00			4	104.30	**417.00**
22	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **5-32Amps Group A TPN P No. 54 / I No.6.15.9 KPWD SR 2014-15 Group A**	No							
			1				1	1547.00	**1547.00**
23	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 57, I. No. 6.41.2 KPWD Electrical SR 2014-15**	Sq.Cm							
	16SWG		1x2	120.00	60.00		14400.00		
			1	360.00	25.00		9000.00		
							23400.00	0.33	**7722.00**
24	Supplying fully automatic store detta starer unit push button type with suitable wires three contractors one adjustable termal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3pase and wired offter fixing to the wooden board for motor upto 12.50 HP **(KPWD electrical SR for 2014-15 P-44 item No6:2:1)**	No.							
			1				1	6583.00	**6583.00**
25	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. **Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**	Cum							
			1	45.00	0.60	0.75	20.25		
							20.25	188.00	**3807.00**
26	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 item No.3.4.2 b PREC SR 2012-13**	Rmtr							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	75 mm dia 6 KSC PVC pipe		1	45.00			45.00		
							45.00	157.00	**7065.00**
27	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1.6 / PREC SR 2012-13**	Cum							
			Qty. Vide Item No. 27				**20.25**	61.00	**1235.00**
	Basic Rate	61.00							
28	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 **P. 92 / I.13.37 PWD SR - 2015-16**	Each							
			1				**1**	2120.00	**2120.00**
	Basic Rate	2000.00							
	Area Weightage @ 6%	120.00							
	Total	**2120.00**							
	Children Paly Equipments								
29	Providing, fabricating and fixing special play equipments consisting of the platform with 65mm dia MS pipe and Aluminium chequered plates of size 3' x 3 ft fixed at 5 ft hight from ground level with 4 legs made out of 65 mm dia G.I "B" pipes fixed cement concrete 1:2:4 the plat forms are to be covered with pyramid shaped FRP roof. The platfrom is toe be fitted with monkey climber for kids and roller slide (Mouleded plastic rollers) fixed at a hight of 5 ft and runs for a length of not less than 12 ft the slide should be suppofted at regular intervals of 6 ft using MS pipes support powder coated fine qulaity FRP with suitable design and as per drawing moulded FRP slides are non-corrossive fade free tough grade durable hard and should prevent UV light The work should be executed as per the standard specification and direction of engineer in charge of work with all lead and lift loading and unloading and any incidental charges required for the successful completion of the work (All FRP items are gel water	No							
			1				**1**	180000.00	**180000.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
30	Providing and fixing children play bridge with MS perforated tunnel wave bridge arch bridge and haging bridge made out of MS pipe and chequered plates uns for a height 11 ft to 5ft. The work should be executed as per the standard specification and direction of engineer in charge of work with all lead and lift loading and unloading and any incidental charges required for the successful completion of the work (all swings chains are rubber cpated & all 'S' hooks are stainless steel)	No	2				2	120000.00	**240000.00**
31	Sub Total								**916158.00**
32	KRIDL Charges @ 8%								**73293.00**
33	BESCOM Deposit for Borewell	L/S	1	10000.00					**10000.00**
34	Miscellaneous and Unforeseen Charges	L/S							**549.00**
								Total	**1000000.00**

Rupees Ten Lakh(s) Only

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2015-16, PWD Elecrical 2014-15, PRED 2012-13 & SE-RDED approved Rate.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
KRIDL

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
KRIDL

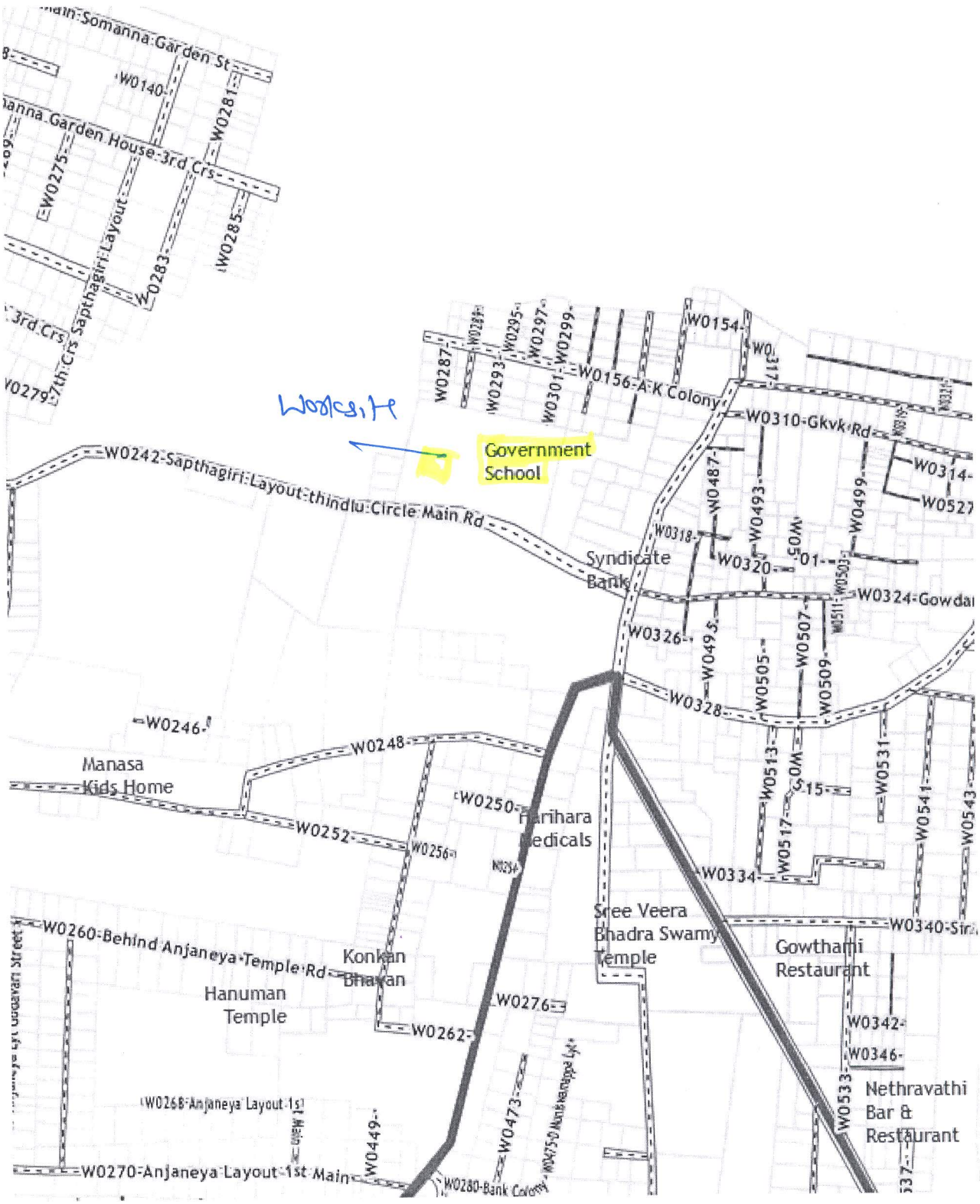
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 22/6/16
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 10:00 Lakhs
Head of A/c. P-2415
Div. Ref. No. EE/AS/07/16-17 Date. 25/06/16
AE 25/06
EE(BTP) 25/6

TECHNICAL SANCTION
Accorded For Rs. 10-00 Lakhs
Head of A/c. P-2415
Div. Ref. No. EE/TS/10/16-17 Date. 25/06/16
AE 25/06
EE(BTP) 25/6.

Name of work : Drilling of Borewell and providing pump motor and providing Children Playing equipments at Thindlu Govt School in ward no 09



Assistant Engineer
Ward no 09

Assistant Executive Engineer
Vidyaranyapura sub Division